

Fire Marshal and Investigator Certification

NFS-14 Workshop

Joe Terranova
BNL Fire Protection Engineering

Background

- FPE staff addition in 2012 triggered a review of DOE Orders and authorities
- 420.1 B - "...The AHJ may designate a contractor as the site's Fire Marshal to act as his representative for day-to-day activities..."
 - Permits
 - Reviewing construction documents
 - Approving routine fire protection equipment
 - Oversight of fire protection I-T-M activities
 - Interpretation of codes and standards
- 420.1C / 1066-12 - "...heads of field elements may designate a contractor as the site's AHJ..."

NFPA 1037 – Fire Marshal

Requisite Knowledge

- Administrative duties
- Risk management
- Recommendation, creation, and evaluation of requirements for professional development
- Develop and manage regulatory programs related to fire, building, and life safety codes (BNL SBMS)
- Fire inspector or plan examiner (NFPA 1031)
- Fire and Life Safety educator (NFPA 1035)
- Fire investigator (NFPA 921/1033)

Administrative Duties

- Reflect overall organizational mission goals to Protect people, the environment, property, and programs.

Guide the Laboratory in its efforts to control in a cost-effective manner the risks from fire, windstorm, collapse, and other perils normally associated with fire insurance coverage by:

- Developing and supporting the Laboratory Fire Protection Policy
- Providing consultations and technical support to all BNL organizations charged with implementation of the policy
- Performing Engineering Design Reviews, Occupational Readiness Reviews, acceptance tests on fire alarm and sprinkler systems, internal audits of the Fire Protection Program, life safety surveys, and fire hazard analyses

Risk Management

- Recommend, create, and evaluate requirements that reduce risks in and to the community
- Community fire risk reduction planning and emergency planning process
- Data collection and analysis
- Risk analysis, comparison, solutions, and constraints
- Strategic Fire Safety Plan

Professional Development

Recommend, create, and evaluate requirements for professional development

- Fire alarm testing personnel have received factory training from Siemens, Simplex, Fenwal, and Viking
- Annually host the NY Wildfire and Incident Management Academy
- All Firefighters cross trained to NWCG standards
- NICET I-III certification

Regulatory Programs

- Develop, manage, and apply regulatory programs
 - Applicable model building codes and standards
 - DOE Orders and Standards
 - Equivalency and Exemption Process
 - BNL Standards Based Management System (SBMS)
 - BNL Assessment Tracking System (ATS)
 - Laboratory Fire Safety Committee Oversight

Fire Inspector and Plans Examiner

- NYS Code Enforcement Officials (NFPA 1031- III)
 - 6 – 3 day courses (108 Hours)
 - Introduction to Code Enforcement Practices, Part 1
 - Introduction to Code Enforcement Practices, Part 2
 - Inspection Procedures for Existing Buildings
 - General Building Principles
 - Residential Code of New York State
 - Building Code of New York State
- 24 hours of annual continuing education required

Fire and Life Safety Educator

- NFPA 1035 standard
 - DOE MIT-111 Basic Instructor Training
 - Fire Instructor I
 - Continuing Staff education
 - ES&H meetings
 - Fire Prevention Week
 - Safety Day

Fire Investigator (NFPA 1033)

NYS Fire Academy / NFA courses

- Arson Awareness and Fire Behavior (12 hours)
 - understand normal and predicted fire behavior
- Principles of Fire Investigation (24 hours)
 - determine the origin and cause of fires
 - Field training with the FDNY BFI (30 hours)
- Fire / Arson Investigation NFPA 921 (80 hours)
 - investigate fires from fire scene to the courtroom
 - Includes fire dynamics, motives, scene documentation, evidence collection , case preparation and testimony
 - Field training with the FDNY BFI (80 hours)
- Annual Fire Investigation Seminar (24 hours)
- NWCG - WFOCD 210 / 310 (80 hours-inc)
- NYS Level II / CFEI / CFI

Fire Investigator

- Additional Investigator Courses
 - Fire Investigative Photography
 - Electrical Fire Cause Determination I&II
 - Interview Techniques
 - Fire Scene Evidence Collection
 - NY FBI Field Office HERT Leader. Developed chain of custody and joint investigative protocols. Local office has MOU with BATFE to lead Arson investigations on DOE property. 18 USC (Arson)
 - Vehicle Fire Investigation
 - Juvenile Firesetter Intervention Specialist I&II

Questions?

